

OLIVELLA BIPLICATA PARVA, n. var. Plate V, fig. 7.

This var. is nearest *angelena*, but much smaller, a little broader in proportion; outer lip more curved, shell more highly colored and variable in color; found in the upper Pleistocene at San Pedro. Length, 14; breadth, 8 mm.

Type in the Oldroyd collection, Stanford University. Type locality, Point Abreojos, Lower California. Collected by Mr. Henry Hemphill.

#### EXPLANATION OF PLATE V.

(All figures natural size.)

- Fig. 1. *Olivella boetica* Carpenter, Alaska.
- Fig. 1a. *Olivella boetica* Carpenter, Vancouver Island, typical.
- Fig. 2. *Olivella boetica diegensis*, n. var.
- Fig. 3. *Olivella boetica mexicana*, n. var.
- Fig. 4. *Olivella biplicata fucana*, n. var.
- Fig. 5. *Olivella biplicata* typical. Monterey.
- Fig. 6. *Olivella biplicata angelina* T. S. Oldroyd.
- Fig. 7. *Olivella biplicata parva*, n. var.
- Fig. 8. *Tornatina tumida*, n. sp.
- Fig. 9. *Conus californicus fossilis*, n. var.
- Fig. 10. *Vermetus nodosus*, n. sp.
- Fig. 11. *Tegula hemphilli*, n. sp.
- Fig. 12. *Clathrodrilla diegensis*, n. sp.
- Fig. 13. *Epitonium clarki*, n. sp.

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#### COLLECTING SHELLS ON THE EAST COAST OF FLORIDA IN THE WINTERS 1891 AND 1892.

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BY OLOF O. NYLANDER.

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Collections made at Jacksonville, Pablo Beach, Indian River and Lake Worth Inlet, were partly named and compared with specimens in the museums at New York City, New Haven, Conn., Boston and Cambridge, Mass., in the summers of 1892-93. A number of the species however were not named until this winter by Mr. T. Van Hyning of the Florida State Museum

and Dr. Paul Bartsch of the U. S. National Museum, and I am under many obligations for their kind assistance.

The specimens were picked up in a general way and no special effort was made to secure large series or the minute species.

As my residence is in the extreme northern part of Maine and I have only a small library on shells, I will follow Bulletin No. 37, U. S. National Museum, by William H. Dall. Although the classification is not up to date, it has a great advantage as nearly all are familiar with the names used in that work.

In December, 1891, around Jacksonville I obtained many dead specimens of *Polygyra vannostrande* Bld. and *P. jejuna* Say, and in the St. John's River *Vivipava georgiana* Lea and *Cyrena carolinensis* Lam.

In January, 1892, I made two trips to Pablo Beach on my first visit going towards Mayport. For a distance of four miles the beach was covered with the large valves of *Cardium magnum* Born; such a mass of shells I had never seen. On my second visit, a week later, there was not a *Cardium* to be found or hardly anything in the line of shells. The two trips to Pablo Beach yielded the following species:

*Purpura floridana* Conr. Two specimens.

*Labiosa (Raeta) canaliculata* Say. Three single valves.

*Tellina alternata* Say. Five perfect specimens.

*Dosinia discus* Rev. Four fine specimens.

*Petricola pholadiformis* Lam. One single valve.

*Pholas costata* Linne. Single valves common.

*Pinna seminuda* Lam. Common.

*Pinna muricata* Linne. Common.

*Donax variabilis* Say. The sand at low water mark was filled with these shells.

*Arca incongrua* Say. Few fine specimens.

*Arca ponderosa* Say. Two living specimens.

*Cardium robustum* Sol. Common.

In the month of February I started on a four weeks trip from Jacksonville to Titusville by rail, and then by steamer the whole length of Indian River to Jupiter and Lake Worth. While examining the limestone outcrops at Rock Ledge on Indian

River, I picked up two specimens of *Mytilopsis leucopheata* Conr. and one *Planorbis duryi* Wetherby. In many places oyster beds are common, and in the Indian River narrows the mangrove roots between high and low water mark were completely covered with young oysters.

Three weeks in March, 1892, was spent at Lake Worth, the most beautiful place on the Florida coast, with the Gulf stream close to the shore. Much of my time was spent in looking at the living forms of everything found below low water in the inlet, and a collection of many objects was made. I had no special collecting outfit, so the small and minute forms were practically left out. The inlet of Lake Worth was at that time a lonely place, only occasionally a sail boat passed in and out, and at low tide I could wade across. At the time of my visit to Lake Worth two residents at Palm Beach had small collections, Mrs. Nelsson and her children collected after storms and had some shells that I did not see and claimed they were the only specimens found by any collector at Palm Beach proper.

Mr. J. J. White at the time a resident of Palm Beach had a small collection of named shells collected mostly at Lake Worth. Mr. White published two articles in THE NAUTILUS, Vol. XI, page 31 and Vol. XII, page 142, about the specimens collected by him and his description of the locality is good.

Shells collected at Lake Worth inlet:

*Ostrea virginica* Gmel. Young specimens common.

*Ostrea frons* Linne. Single valves.

*Ostrea cristata* Born. Single valves.

*Anomia simplex* Orb. Common on old logs.

*Spondylus spathuliferus* Sowb. A few single valves.

*Pecten irradians* var. *dislocatus* Say. Single valves common.

*Pecten ornatus* Lam. Single valves common.

*Pecten nodosus* Linn. Several single valves.

*Pecten fuscopurpureus* Conr. Single valves common.

*Avicula atlantica* Lam. One fine specimen.

*Margaritophora radiata* Lam. One fine specimen.

*Pinna muricata* Linn. Common.

*Pinna seminuda* Lam. Common.

*Modiolus demissus* Dillw. Several.

- Modiolus tulipus* Linn.  
*Arca occidentalis* Phil. Several fine living specimens.  
*Arca transversa* Say. One fine specimen.  
*Arca secticostata* Rve. One single valve.  
*Arca campechensis* Dillw. Six fine specimens.  
*Pectunculus pennaceus* Gmel. Four single valves.  
*Divaricella dentata* Wood. One fine pair.  
*Lucina tigrina* Linn. Several fine specimens.  
*Chama macrophylla* Lam. One specimen and single valves.  
*Cardium isocardia* Linn. Several fine specimens.  
*Cardium muricatum* Linn. Single valves.  
*Liocardium serratum* Linn. One fine valve.  
*Liocardium mortoni* Conr. Common.  
*Venus mortoni* Conr. One single valve.  
*Chione cancellata* Linn. Common.  
*Chione intapurpurea* Conr. One fine single valve.  
*Anomalocardia cuneimeris* Conr. Several.  
*Pitaria simpsoni* Dall. One single valve.  
*Pitaria fluminata* Menke. One fine specimen.  
*Tagelus gibbus* Spengler. One good specimen.  
*Tellina magna* Spengler. One large single valve.  
*Tellina brasiliiana* Lam. Several fine specimens.  
*Macoma cerina* C. B. Adams. Common.  
*Teredo navalis* Linn. Common in timbers.  
*Bulla occidentalis* A. Adams. In Lake Worth common.  
*Haminea guildingi* Swainson. In Lake Worth common.  
*Melampus lineatus* Say. In Lake Worth common.  
*Siphonaria naufragum* Stearns. Lake Worth inlet few.  
*Terebra dislocata* Say. Common.  
*Conus proteus* Hwass. One partly broken specimen.  
*Cancellaria reticulata* Linn. Few.  
*Oliva literata* Lam. Several large specimens.  
*Marginella apicina* Menke. Common in Lake Worth.  
*Fasciolaria gigantea* Kiener. Two young shells.  
*Fasciolaria distans* Lam. Beach-worn shells.  
*Fulgur pyrum* Dillw. Three specimens.  
*Fulgur canaliculata* Say. Beach-worn shells.  
*Fulgur perversa* Linn. One large living shell 11 inches long.

*Fulgur carica* Linn. Large dead shells, common north of inlet.

*Melongenella corona* Gmel. Old shells in Indian camp sites in Lake Worth.

*Tritonidea tincla* Conr. Few shells.

*Nassa vibex* Say. Common.

*Columbella mercatoria* Linn. Six specimens.

*Murex pomum* Gmel. One large dead shell.

*Murex rufus* Lam. One shell found at Palm Beach.

*Murex* ? A large much worn shell.

*Eupleura caudata* Say. One specimen, Lake Worth.

*Muricidea floridana* Conr. Common on old logs in inlet.

*Purpura deltoidea* Lam. Three specimens.

*Janthina fragilis* Lam. Several living specimens on beach.

*Tritonium chlorostoma* Lam. Five dead specimens.

*Tritonium pileare* Lam. Seven good specimens.

*Tritonium olearium* Linne. One good specimen.

*Tritonium femorale* Linne. One good specimen.

*Cassis cameo* Stimpson. Two badly worn shells on beach.

*Cassis tuberosa* Linn. One good specimen at old inlet.

*Cassis testiculus* Linn. Two good specimens.

*Cassis inflata* Shaw. Fine specimen, common.

*Dolium galea* Lin. One large fine specimen and several small ones.

*Pyrula papyratia* Say. Three specimens.

*Cypræa exanthema* Linn. Ten specimens, two very large.

*Cypræa cervus* Linn. One good specimen.

*Cypræa spurca* Linn. Several good specimens.

*Trivia pediculus* Linn. Common.

*Strombus gigas* Linn. Common.

*Strombus pugilis* Linn. Two specimens on beach.

*Strombus bituberculatus* Lam. In Lake Worth, common.

*Strombus costatus* Gmel. One good specimen.

*Cerithium caudatum* Sow. Two specimens.

*Cerithium semiferruginum* Lam. Two specimens.

*Cerithium floridanum* Morch. Common in Lake Worth.

*Cerithium algicola* C. B. Adams. Few.

*Cerithium literatum* Born. Few.

- Cerithium muscarum* Say. Few.  
*Modulus floridanus* Conr. Common.  
*Litorina lineata* Phil. Common.  
*Ampullaria depressa* Say. Shells inhabited by crabs.  
*Crepidula fornicata* Say. Worn specimens.  
*Crepidula plana* Say. Small specimen in dead shells.  
*Natica canrena* Lam. Two dead shells.  
*Nerita duplicata* Say. Several good specimens.  
*Sigaretus perspectivus* Say. One good specimen.  
*Turbo crenulatus* Gmel. Living on dead logs in inlet.  
*Astraea tuber* Linn. Many fine large specimens were collected.  
*Livona pica* Linn. One large dead shell.  
*Calliostoma jujubinum* Gmel. One good specimen.  
*Nerita peloronta* Linn. One large shell.  
*Nerita versicolor* Lam. One good specimen.  
*Neritina virginea* Linn. Common in Lake Worth.  
*Ceratozona rugosa* Sow. On lime rock in inlet.  
*Argonauta argo* var. *americana* Dall. One specimen.  
*Spirula peroni* Lam. Common on beach.  
 Of the land shells at Lake Worth, *Euglandina rosea* Fer. and  
*Polygyra septemvolva* Say seemed common.

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**MOLLUSCAN SPECIES NAMED IN THE PORTLAND CATALOGUE, 1786,  
 PART II, FOREIGN SPECIES.**

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BY WILLIAM HEALEY DALL.

(Concluded from p. 100.)

- ANOMIA SANGUINEA** S., p. 184, No. 3928. Scarlet *Anomia* from  
 New Zealand. + *Terebratula sanguinea* Leach, 1815.  
**ARCA LABIATA** S., p. 185, No. 3947. Davila, l, pl. 18. + *Arca*  
*concamera* Bruguière, 1789; and + *Cucullaea auriculifera*  
 Lamarck, 1819.  
**ARCA NODULOSA** S., p. 98, No. 2158; p. 100, No. 2194. China.  
 Gualtieri, pl. 87, E. Not of O. F. Müller, 1776.  
**ARGONAUTA HIANIS** S., p. 44, No. 1055 *b*; p. 174, No. 3798.  
 China. Brown paper Nautilus. Rumphius Thes. 18, B.  
 + *A. hians* Dillwyn, 1817.